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From: "Rigassio-Smith, Anita" <Anita.Rigassio-Smith@jacobs.com>

To: Dave Dickerson/R1/USEPA/US@EPA

Delivered Date: 01/09/2009 02:46 PM EDT

Subject: RE: Alt. 4 cost estimate follow-up - question on cell 1 and DDA

Hi Dave,

As I am working on Alt. 4, I have another question.

For Item #6 (empty cell #1 and cap DDA), I'm wondering if this activity should be moved up to be part of Demob Areas C&D (i.e., around 2010 timeframe). The reason is, I don't think we can fully demob Area C if the cell and the DDA are not properly "closed", unless we want to carry some sort of maintenance for those until the end.

Let me know what you think.

Anita

-----Original Message-----

From: dickerson.dave@epamail.epa.gov [mailto:dickerson.dave@epamail.epa.gov]

Sent: Thursday, December 11, 2008 5:14 PM

To: Peterson.David@epamail.epa.gov

Cc: Catri.Cynthia@epamail.epa.gov; stanley.elainet@epamail.epa.gov;

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Robert.A.Leitch@usace.army.mil; paul.g.l'heureux@usace.army.mil; Fox, Steve (New Bedford); Gouveia, Mark; Rigassio-Smith, Anita

Subject: Re: Alt. 4 cost estimate follow-up

Dave P. makes a good point, one that was overlooked. Currently the wetland MUs do NOT include the Marsh Island work. I suppose the best fit would be to include this ~\$3m effort (the corps did an estimate which I'll forward if need be) in #4 below (i.e., AFTER the dredging for the LHCC has been completed to minimize recontamination).

Thanks - Dave

David

Peterson/R1/USE

PA/US

Dave Dickerson/R1/USEPA/US@EPA

To

12/11/2008
04:55 PM Cynthia Catri/R1/USEPA/US@EPA, cc
ElaineT Stanley/R1/USEPA/US@EPA
Subject
Re: Alt. 4 cost estimate follow-up
(Document link: Dave Dickerson)

Is there any contingent for expediting the Marsh Island work, depending on the land trust/Trustees' schedule for their restoration work?

Dave
Dickerson/R1/US
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Peterson/R1/USEPA/US@EPA
Subject
Alt. 4 cost estimate follow-up

All - as a follow up from Tuesday's meeting, lets go with the following approach:

1. change the CAD cell sequence so that the LHCC is being excavated in

2010 and 2011 using the additional \$4.5m in these two years (i.e., \$19.5m total in 2010 and 2011). Assume economy of scale results in 300,000 cy of disposal volume.

2. Meanwhile, using the remaining \$15m/year: in 2009 we finish the cove Superfund dredging, and in 2010 and 2011 we demob Areas C and D and purchase the small scows for the upper harbor mech. dredging (as per the existing Alt. 4 estimate).

3. In 2012, escalation of the \$15m begins (i.e. \$15.525m) and FILLING of the LHCC begins (first the upper harbor MUs 25-31 and then the lower harbor MUs). This should be a volume of 272,000 cy (with the offset of 10,000 cy for the ou3 cap). No "tipping fees" for the LHCC as the hole will already have been paid for.

4. Once the LHCC is filled, we start excavating the UHCC. (Hopefully this is in 2014 or 2015 depending on whether it takes two or three years to fill the LHCC.) Assume the remaining volume of "contaminated organic material" of 30,000 cy goes to a LHCC (see Table 5.2-A in the Apex CAD cell report: 70,424 cy minus ~40,000 cy dredged in 2008/2009 = ~30,000 cy).

For the remaining 61,528 cy of "non-contaminated organic material" (Apex's term) in the UHCC, maybe we should assume that this material is used to cap the LHCC (or used as additional cap at the ou3 area). The organics in the cap material are preferable for additional sequestering of dissolved contaminants, but we may need to check on geotechnical issues.

For the excavation of the 422,000 cy of clean S&G from the UHCC, as discussed these would be sent to the CCDS (most likely by truck to Area D and then loaded on to large scows). (the LHCC capping concept discussed at the meeting for this material would already have happened using the clean organics immediately above)

5. Once the UHCC is excavated, we fill it, and then move on to the shoreline/wetland cleanups.

6. For lack of a more specific plan, lets assume that cell #1 gets emptied and the pilot CDF (aka the DDA) gets capped as the last activity after the wetland cleanups.

Please let me know if you see anything I missed!

Thanks - Dave

p.s. remember this is just a scenario for cost estimating purposes: if for some reason we get more funding we would likely put the UHCC on a parallel track with the LHCC, and perhaps deal with cell #1 and/or the pilot CDF earlier...

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